

# EN

## The Jumpstart on an Elite Career

High tech, complex cutting edge systems and computers.



Engineman  
EN

**Enginemen (EN)** operate, service and repair internal combustion engines used to power some of the Navy's ships and most of the Navy's small craft. Most enginemen work with diesel engines.

Enginemen also operate and maintain electrohydraulic controllable pitch propeller systems and steering engines, refrigeration and air conditioning systems, air compressors, desalinization plants and small auxiliary boilers.

Enginemen perform their duties in surface ships.



### What They Do

The duties performed by ENs include:

- Aligning fuel, water and air piping systems and controlling operation of diesel engines used for ship and small craft propulsion, and to generate electrical power
- Cleaning, lubricating, adjusting, testing and performing other preventive maintenance on diesel engines, reduction gears, air compressors, hydraulic or pneumatic clutches, steering engines and controllable pitch propeller systems
- Operating and maintaining desalinization plants used to make fresh water from sea water
- Operating and servicing refrigeration plants and air conditioning systems
- Repairing or replacing valves, pumps, compressors, heat exchangers and control devices used with diesel engines and gas turbines
- Making entries into and analyze machinery operating records and reports

### Credit Recommendations

The American Council on Education recommends that semester hour credits be awarded in the vocational certificate or lower-division bachelor's/associate's degree categories for courses taken in this rating on engine maintenance and repair, and blueprint reading.

### Qualifications and Interests

Clear speech, physical stamina and manual dexterity are needed in this rating. ENs should know how to use common hand and power tools and enjoy working with complex mechanical devices.

Knowledge of arithmetic and internal combustion engines is desirable. Other helpful characteristics are the ability to work with others, resourcefulness and an interest in new ideas and learning new skills. Normal hearing is required.

### Working Environment

Enginemen work in engine rooms or shops which, at times, may be warm and noisy. They may also work outdoors aboard small craft. The work performed is sometimes physical. Although Enginemen often work closely with others, they may also be required to work alone with limited supervision.

### Opportunities

For qualified applicants, opportunities are fairly good to enter this rating. About 6,000 men and women work in the EN rating.

### Related Civilian Jobs—Dept. of Labor Dictionary of Occupational Titles

Supervisor, Garage  
Automobile Mechanic  
Machinist, Marine Engine  
Diesel Mechanic  
Fuel System Maintenance Worker  
Stationary Engineer  
Diesel Plant Operator (light, heat & power)  
Power Plant Operator (light, heat & power)

Since Navy programs and courses are revised at times, the information contained on this rating card is subject to change.

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### Career Path After Recruit Training

Enlistees are taught the fundamentals of this rating though on-the-job training or formal Navy schooling.

School	Present Location	Approximate Training Time	Subjects	Training Methods
Engineering Common Core	Great Lakes, Ill.	3 Weeks	Introduction to technical documentation, basic mechanical theory, safety precautions and programs, alignment and operation of piping systems and equipment, hand tools, precision instruments, lubricants systems, bearings, couplings, gears, valves, pumps and the Maintenance Material Management System (3M).	Group instruction and practical application
Mechanical Core		4 weeks		
Engineman Class "A" School	Great Lakes, Ill.	10.5 weeks	Basic diesel engine construction, systems, maintenance and repair of auxiliary equipment including small bore engines, anchor windlass, elevators, steering gear, hydraulics, air compressors, galley and laundry equipment maintenance and repair, distilling plants. Watch standing and system tracing in an operational propulsion plant trainer. Group instruction and practical application	Group instruction and practical application

After "A" school, ENs may be assigned "C" School for a specific diesel mechanic course for advanced training prior to being assigned to ships, naval shipyards or naval repair facilities afloat or ashore in the United States or overseas. Upon completion of first fleet tour, ENs may be assigned to a "C" school for a specific diesel mechanic course for advanced training. In a 20-year period, ENs spend about 65 percent of their time assigned to fleet units and 35 percent to shore stations.

All personnel now receive sea pay at sea (E-1 to E-9)



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